BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

Name of the Work :- Drilling Borewells and Providing Pipe Line at Kodigehalli in Ward No.08,

Eatimated Cost : 10.00 Lakhs

Job Code : 008-19-000016

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Drilling of Borewells and Providing pipeline atKodigehalli in Ward No.08.

Job Code:- 008-19-000016

Est Cost= 10.00 Lakhs

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.47, I. 9.4) PRED.SR 2012-13**								
	Basic Rate	1882	No's						
	Area Weightage 3%	56.46							
	Total	1938.46							
			1				1.00	1938.46	1,938.46
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **Page no. 46 / I. 9.1 PRED SR 2012-13**								
	Basic Rate	306							
	Area Weightage 3%	9.18							
	Total	315.18							
	0 to 50 m	mtr	1	50.00			50.00	315.18	15,759.00
	Basic Rate	400							
	Area Weightage 3%	12							
	Total	412							
	50 to 100 m		1	50.00			50.00	412.00	20,600.00
	Basic Rate	445							
	Area Weightage 3%	13.35							
	Total	458.35							
	100 to 150 m		1	50.00			50.00	458.35	22,917.50
	Basic Rate	470							
	Area Weightage 3%	14.1							
	Total	484.1							
	150 to 200 m		1	50.00			50.00	484.10	24,205.00
	Basic Rate	544							
	Area Weightage 3%	16.32							
	Total	560.32							
	200 to 250 m		1	50.00			50.00	560.32	28,016.00
	Basic Rate	583							
	Area Weightage 3%	17.49							
	Total	600.49							
	251 to 300 m		1	50.00			50.00	600.49	30,024.50
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **SE PRED III NO 84**								
		Rmtr	1	40.00			40.00	1325.00	53,000.00
4	Providing 250mm dia PVC Pipe **BWSSB SR 16-17 PNO 57 SL NO 11**								
		Rmtr							
			1	15.00			15.00	1144.00	17,160.00
5	Providing 175mm dia ms casing cap **page no III it no 85 pred 12-13 sr**								
		no	1				1.00	100.00	100.00
6	Providing MS Casing pipe collars **page no III it no 86 pred 12-13 sr**								
		No's	1	10.00			10.00	150.00	1,500.00

No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
7	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / **Atalanta** / Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO **XXXXII**									
	17.5 HP 30 Stage	Set	1				1.00	72126.00	72,126.00
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A **P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm KPWD Electrical SR 2014-15**								
		Mtr	1	300.00			300.00	188.70	56,610.00
9	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length **pno 558 ino 3 bwssb sr 14-15**								
		NO	1	50.00			50.00	88.00	4,400.00
10	Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary o **n fixing the same to the wall using tapered** inverted wooden plugs screws etc., **P No. 44No.6.6.6 KPWD Electrical SR 2014-15**								
	20x20x2.5	Each	1				1.00	302.00	302.00
11	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group. **P No.55/ I No.7.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2014-15**								
		Mtr	1	35.00			35.00	140.40	4,914.00
12	Labour charges for laying of 1.1 K.V class UG cable, **P No. 61/ I No. 7.8.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**								
		Mtr	1	35.00			35.00	10.80	378.00
13	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete **P No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15**								
	For Cutting Road Surface aspalt	Mtr	1	30.00			30.00	117.00	3,510.00
14	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-15**								
	40mm dia GI pipe	Mtr	1	3.00			3.00	345.00	1,035.00
15	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No.62/ I No. 7.13.2 KPWD Electrical SR 2014-15**								
	16Sqmm	NO	1				1.00	280.00	280.00
16	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, **(P No.55, I No. 7.1) KPWD Electrical SR 2014-15**								
		NO	1				1.00	2727.00	2,727.00
17	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No44/I No 6.7.4 KPWD Electrical SR 2014-15**								
	100 Amps	Each							
		1	3				3.00	360.00	1,080.00
18	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... **P No62 I No 7.14.2 KPWD Electrical SR 2014-15**								
	25mm dia	Each							

No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
		1	6				6.00	86.00	516.00
19	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications **pno 47 IT 6.16.5 KPWD Electrical SR 2014-15**								
		Each	1				1.00	1547.00	1,547.00
20	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15**								
	16SWG	Sq.Cm	2	200.00	60.00		24000.00		
			1	350.00	25.00		8750.00		
							32750.00	0.33	10,807.50
21	Gate value 50 mm nominal bore gun metal **P. No.xxiii sl No. 673 PWD SR**								
	50mm dia	NOS	1	6.00			6.00	1650.00	9,900.00
22	NIPPLE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	1				1.00	104.30	104.30
23	S BEND 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	1	6.00			6.00	219.00	1,314.00
24	TEE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	1				1.00	169.00	169.00
25	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **PRED Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter**								
		NO	1				1.00	10000.00	10,000.00
26	Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 75 mm (0.662) **(Page no.13, Item No.7.1.5) (kuws and db)**								
		Mtr	1	300.00			300.00		
	Basic Rate	128.00							
	Total	**128.00**			Per Rmtr		300.00	128.00	38,400.00
27	BESCOM Deposit		1				1.00	15000.00	15,000.00
28	KSRB13-3.1: Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt) B class **50 mm dia** nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. **(Page 92 ITEM NO 13.6)**								
	Basic Rate	512.00							
	Area Weightage @6%	30.72							
	Total	**542.72**							
		Mtr	1	415.00			415.00	542.72	225228.80
29	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 (Page No.95 Item No. 13.55 / PWD SR 2018-19)								
	Basic Rate	1330.00							

o.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Area Weightage @ 6%	79.80							
	Total	**1409.80**							
		NOS	1				1.00	1409.80	1,409.80
30	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **(P. No.97/ I. No. 13.81.3 PWD SR)**								
	Basic Rate	210.00							
	Area Weightage @ 6%	12.60							
	Total	**222.60**							
	50mm dia	NOS	1	2.0			2.00	222.60	445.20
31	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications. **(P.No.6, I.No.2.1) (SR of PWD)**								
		cum	1	415.00	0.60	0.75	186.75		
	Basic Rate	249.00							
	Area Weightage @ 6%	14.94							
	Total	**263.94**							
32	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications Specification No.KBS 2.1 **.(Page No.7, Item No. 2.10)**								
	Basic Rate	201.00							
	Area Weightage @ 6%	12.06							
	Total	**213.06**							
		cum					186.75	213.06	39,789.00
33	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Item No 22.6.1								
	Basic rate	4916.00							
	6.00% AW	294.96							
	Sub Total	5210.96							
		cum	1.00	415.00	0.75	0.10	31.13		
							31.13	5210.96	162191.13
								Sub Total Cost of KPWD SR items	478354.49
34								**Total Construction Cost**	928694.07
								12% GST on KPWD SR Items	57402.54
35								**Cost towards PMC / Third Party inspection LS**	9287.00
36								**Cost towards 18% GST on PMC Charges**	1671.66
								Sub Total	997055.27
37								**F.Miscellaneous and rounding off**	2944.73
								Total	1000000.00

ADMINISTRATIVE APPROVAL
Accorded For Rs. Ten lakhs only
Head of A/c. 186.75 263.94 P-3293 49,291.00
Div. Ref. No. 46 Date 01/02/19
AE 01/02 EE(BTP)

TECHNICAL SANCTION
Accorded For Rs. Ten lakhs only
Head of A/c. P-3293
Div. Ref. No. Date 01/02/19
AE 01/02 EE(BTP)

Certificate

1. *The workspot was inspected and works is found to be necessary.*
2. *The area comes within the Bruhat Bangalore Mahanagara Palike limits.*
3. *The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, KPWD Electrical SR 2014-15 & PRED SR 2012-13*

Assistant Engineer

Asst. Executive Engineer

Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

Name of the Work : Maintenance Works to Ward Office Ward No 08

Eatimated Cost : 5.00 Lakhs

Job Code : 008-19-000014

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :- Maintenance Works to Ward Office Ward No 08

Job Code:- 008-19-000014

Est Cost :- 5.00 Lakhs

Sl. No	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
1	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification (Page No : 69, item No : 10.5.1)								
	Top Slab		1	11.00	19.70		216.70		
	Deductions								
			-1	4.00	3.00		-12.00		
							204.70	**568.08**	**116285.98**
							Total Qty	**Sqm**	
							Basic Rate	526.00	
							Sub Total	526.00	
						Area Weightage 8%		42.08	
							Final Rate	**568.08**	
2	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 120, I.No. 15.53.2 of SR 2018-19).								
	External Walls								
			2	17.00		3.00	102.00		
			2	10.00		3.00	60.00		
	Staircase								
			2	4.70		3.00	28.20		
			2	1.70		3.00	10.20		
	Parapete Wall								
	Out side Portion		1	63.00		1.00	63.00		
	In side Portion		1	61.40		1.00	61.40		
	Piller Extentionded		10	1.62			16.20		
	Compound Wall No		18	3.90			70.20		
	Deductions for Openning								
	Doors								
	D1		-1.00	1.20		2.10	-2.52		
	D2		-1.00	1.62		2.10	-3.40		
	Windows								
	W1		-8.00	1.50		1.50	-18.00		
	W2		-1.00	0.90		0.90	-0.81		
	W3		-1.00	1.50		0.80	-1.20		
	Ventilations								
	V1		-3.00	0.60		0.75	-1.35		
							383.92	**110.16**	**42292.41**
							Total Qty	**Sqm**	
							Basic Rate	102.00	
							Sub Total	102.00	
						Area Weightage 8%		8.16	
							Final Rate	**110.16**	

No.	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
3	KSRB 15.10.2 Providing white washing for every one additional coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. (Page No. 117, Item No. 15.39)								
	Internal Plastering								
	Out Side Walls		2	17.00		3.00	102.00		
			2	10.00		3.00	60.00		
	Inside Walls								
			1	16.50		3.00	49.50		
	Office								
			1	5.50		3.00	16.50		
			2	3.90		3.00	23.40		
	T.V Chamber								
			1	3.45		3.00	10.35		
	Tiolet T1								
			2	3.90		1.00	7.80		
			1	1.60		1.00	1.60		
	Office 1								
			2	3.90		3.00	23.40		
			1	4.70		3.00	14.10		
	Kitchen								
			2	2.55		3.00	15.30		
	Tiolet T2								
			2	1.80		1.00	3.60		
			1	1.50		1.00	1.50		
	Tiolet T3								
			2	1.80		1.00	3.60		
			1	1.00		1.00	1.00		
	Wall								
			1	2.70		3.00	8.10		
			1	0.90		3.00	2.70		
	Deductions								
	Doors								
	D1		-1.00	1.20		2.10	-2.52		
	D2		-1.00	1.62		2.10	-3.40		
	D3		-3.00	0.80		2.10	-5.04		
	D4		-2.00	0.90		2.10	-3.78		
	Windows								
	W1		-8.00	1.50		1.50	-18.00		
	W2		-1.00	0.90		0.90	-0.81		
	W3		-1.00	1.50		0.80	-1.20		
	Office								
	V1		-3.00	0.60		0.75	-1.35		
	Opening								
			-1.00	0.80		2.10	-1.68		
			-1.00	1.20		2.10	-2.52		
							304.15	**6.48**	**1970.88**
							Total Qty	***Sqm***	
							Basic Rate	*6.00*	
							Sub Total	*6.00*	
							Area Weightage 8%	*0.48*	
							Final Rate	***6.48***	
4	KSRB 15.10.4 Providing white washing to ceiling and / or sloping roof surface with additional one coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.(Page No. 117, Item No. 15.41)								
	Ceiling Plastering		1	16.50	9.50		156.75		
							156.75	**7.56**	**1185.03**
							Total Qty	***Sqm***	
							Basic Rate	*7.00*	
							Sub Total	*7.00*	
							Area Weightage 8%	*0.56*	

Sl. No	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
							Final Rate	7.56	
5	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 119, item No :15.51. 2 & 3) for ceiling								
	Same As Ceiling Plastering Qnty								
							156.75	97.20	15236.10
							Total Qty	Sqm	
							Basic Rate	90.00	
							Sub Total	90.00	
							Area Weightage 8%	7.20	
							Final Rate	97.20	
6	KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinerycomplete as per specifications. Specification No. KBS 7.12.1 / 7.12.2 / 7.12.3 / 7.12 (Page No : 34, item No :7.7)								
	Ventilations		1	0.60	0.75		0.45		
							0.45	4209.84	1894.43
							Total Qty	Sqm	
							Basic Rate	3898.00	
							Sub Total	3898.00	
							Area Weightage 8%	311.84	
							Final Rate	4209.84	
7	KSRB 9.4-3 : Providing Mathi / Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 (Page No : 53, item No :9.12 SR 2018-19)								
	Door D1	1.00	1	7.50	0.125	0.125	0.12		
							0.12	79051.68	9263.87
							Total Qty	Cum	
							Basic Rate	73196.00	
							Sub Total	73196.00	
							Area Weightage 8%	5855.68	
							Final Rate	79051.68	
8	KSRB 9-7.3 :Providing and fixing in position fully panelled Mathi/ Nandi wood shutters for doors, styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (Page No : 53, item No :9.12 SR 2018-19)								
	Door D1	1.00	1	1.65		2.100	3.47		
							3.47	4122.36	14283.98
							Total Qty	Sqm	
							Basic Rate	3817.00	

Sl. No	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
							Sub Total	3817.00	
							Area Weightage 8%	305.36	
							Final Rate	4122.36	
9	KSRB 15-17.4 : Applying priming coat over new wood surface and / or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.(Page. No. 121 Item No. 15.58 SR 2018-19)								
	Same as Door Qnty								
	Doors								
	D1		1.00	1.20		2.10	2.52		
	D2		1.00	1.62		2.10	3.40		
	D3		3.00	0.80		2.10	5.04		
	D4		2.00	0.90		2.10	3.78		
							14.74	**54.00**	**796.07**
							Total Qty	**Sqm**	
							Basic Rate	50.00	
							Sub Total	50.00	
							Area Weightage 8%	4.00	
							Final Rate	**54.00**	
10	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.(Page. No. 121 Item No. 15.60.1 SR 2018-19)								
	Same as priming coat qnty for Door								
							14.74	**104.76**	**1544.37**
							Total Qty	**Sqm**	
							Basic Rate	97.00	
							Sub Total	97.00	
							Area Weightage 8%	7.76	
							Final Rate	**104.76**	
11	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locI<ing arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(**For 1000 litre capacity**) Specification No.KBS 13.22 (P.No.96, I.No.13.78 of PW, P&IWTD S.R 2018-19)								
			1				1.00		
							1.00	**7374.24**	**7374.24**
							Total Qty	**each**	
							Basic Rate	6828.00	
							Sub Total	6828.00	
							Area Weightage 8%	546.24	
							Final Rate	**7374.24**	

Sl. No	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
12	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.99, I.No. 13.86.2 of KPWD SR 2018-19)								
	20mm Nominal OD Pipes		40				40.00		
							40.00	**253.80**	**10152.00**
							Total Qty	**m**	
							Basic Rate	235.00	
							Sub Total	235.00	
						Area Weightage 8%		18.80	
							Final Rate	**253.80**	
13	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes(P.No.99, I.No. 13.86.3 of KPWD SR 2018-19)								
	25mm nominal OD pipes		40	--	--	--	40.00		
							40.00	**316.44**	**12657.60**
							Total Qty	**m**	
							Basic Rate	293.00	
							Sub Total	293.00	
						Area Weightage 8%		23.44	
							Final Rate	**316.44**	
14	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.84, I.No. 12.41 of KPWD SR 2018-19)								
			1	--	--	--	1.00		
							1.00	**1226.88**	**1226.88**
							Total Qty	**unit**	
							Basic Rate	1136.00	
							Sub Total	1136.00	
						Area Weightage 8%		90.88	
							Final Rate	**1226.88**	
15	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 90, I.No. 12.111 of KPWD SR 2018-19)								
			2	--	--	--	2.00		
							2.00	**162.00**	**324.00**
							Total Qty	**each**	
							Basic Rate	150.00	
							Sub Total	150.00	
						Area Weightage 8%		12.00	
							Final Rate	**162.00**	

Sl. No	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
16	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.No. 90, I.No. 12.113.1 of KPWD SR 2018-19)								
			3	--	--	--	3.00		
							3.00	**270.00**	**810.00**
							Total Qty	**each**	
							Basic Rate	250.00	
							Sub Total	250.00	
							Area Weightage 8%	20.00	
							Final Rate	**270.00**	
17	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (P.No. 93, I.No. 13.23 of KPWD SR 2018-19)								
			4	--	--	--	4.00		
							4.00	**205.20**	**820.80**
							Total Qty	**each**	
							Basic Rate	190.00	
							Sub Total	190.00	
							Area Weightage 8%	15.20	
							Final Rate	**205.20**	
18	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.94/ I.No. 13.34 of KPWD SR 2018-19)								
			3	--	--	--	3.00		
							3.00	**484.92**	**1454.76**
							Total Qty	**each**	
							Basic Rate	449.00	
							Sub Total	449.00	
							Area Weightage 8%	35.92	
							Final Rate	**484.92**	
19	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.93/ I.No. 13.33 of KPWD SR 2018-19)								
			2	--	--	--	2.00		
							2.00	**362.88**	**725.76**
							Total Qty	**each**	
							Basic Rate	336.00	
							Sub Total	336.00	
							Area Weightage 8%	26.88	
							Final Rate	**362.88**	
20	KSRB 11 -6 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, S-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre white glazed I vitreous china clay low level, flushing cistern (all are approved make) with fittings, C.1 I M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(P.No.79 I.No.12.5 of KPWD SR 2018-19)								
			2	--	--	--	2.00		
							2.00	**5352.48**	**10704.96**
							Total Qty	**Each**	
							Basic Rate	4956.00	
							Sub Total	4956.00	
							Area Weightage 8%	396.48	
							Final Rate	**5352.48**	

Sl. No	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
21	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.82 I.No.12.23 of PWDSR 2018-19)								
			1	--	--	--	1.00		
							1.00	**4327.56**	**4327.56**
							Total Qty	**unit**	
							Basic Rate	4007.00	
							Sub Total	4007.00	
							Area Weightage 8%	320.56	
							Final Rate	**4327.56**	
22	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.80 I.No.12.7 of PWDSR 2018-19)								
			1	--	--	--	1.00		
							1.00	**3317.76**	**3317.76**
							Total Qty	**unit**	
							Basic Rate	3072.00	
							Sub Total	3072.00	
							Area Weightage 8%	245.76	
							Final Rate	**3317.76**	
23	KSRRB M800-7. Painting:-Providing and applying two coats of ready- mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications. MORTH Specification No. 803 Painting on Steel Surface(P.No.181, I.No24.8.1 of PW,P&IWTD S.R 2018-19))								
	Front Gate								
			1	3.5		2.00	7.00		
			1	1.6		2.00	3.20		
	Doors		3	1.6		2.10	10.08		
	Compound Grill								
			10	4		1.40	56.00		
	Chain Link Fencing								
			1	18.5		1.50	27.75		
			1	22		1.50	33.00		
	Windows Grill								
	W1		8	1.50		1.50	18.00		
	W2		1	0.90		0.90	0.81		
	W3		1	1.50		0.80	1.20		
	Ventilations		1	0.60		0.75	0.45		
							157.49	**77.76**	**12246.42**
							Total Qty	**Sqm**	
							Basic Rate	72.00	
							Sub Total	72.00	
							Area Weightage 8%	5.76	
							Final Rate	**77.76**	

Sl. No	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
24	Providing and fixing M.S. Hand railing for Balcony with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.Specification No. KBS 11 (P.No.40 I.No.7.35 of PWDSR 2018-19)								
	Railing for Staircase								
		1	4.00			1.20	4.80		
							4.80	3067.20	14722.56
							Total Qty	Sqm	
							Basic Rate	2840.00	
							Sub Total	2840.00	
							Area Weightage 8%	227.20	
							Final Rate	3067.20	
25	Supplying and Fixing of Garbage bins rectangular with permanent structure series without arch 100litre capacity approved by Engineer in charge								
	Garbage Bins	Nos	2				2	11000.00	22000.00
	Data Rate	11000.00							
26	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
		Cum	1	110.00	1.00	0.15	16.50		
							16.50	252.49	4166.12
	A.Basic rate	130.00							
	B.Loading and unloading with 20km lead= 57+2.0x1.28x20 = 108.2	108.20							
	C (Area Weightage 6%)	14.29							
	Total	252.49							
27	KSRRB M400-19: Construction of Median and island above road level with approved material deposited from borrowpits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.407 (P.No155 of I.No.20.20 in PW,P&IWTD SR 2018-19)								
	For Cobble Stone Footpath	cum							
			1	110	1	0.10	11.00		
	A.Basic rate	209.00					11.00	221.54	2436.94
	B.Area Weightage 6%	12.54							
	Total	221.54							
28	KSRB 14.6-1: Providing & laying heavy duty cobble stones 60mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19)								
	For Cobble Stone Footpath	Sqm							
			1	110	1.00		110.00		
	A.Basic rate	1053.00					110.00	1116.18	122779.80
	B.Area Weightage 6%	63.18							
	Total	1116.18							

Sl. No	Description of Work	Unit	No	Length m	Bredth m	Depth m	Qty.	Rate	Amount
29								Total Construction Cost	437001.27
30								12% GST	52440.15
31								PMC / Third Party inspection	4371.00
32								18% GST on PMC / Third Party inspection	786.78
33								Sub Total	494599.20
								Miscellaneous and rounding off	5400.80
								Total	500000.00

rtificate.

1 The workspot was inspected and work is found to be necessary.

2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

3 The rates adopted based on the KPWD Electrical SR 2014-15, BWSSB SR 2017-18, KPWD SR, Bangalore circle for year 2018-19.

4 The provisions made in the estimate are necessary and essential.

Assistant Engineer

Assistant Executive Engineer

Executive Engineer 01/02

01/2

ADMINISTRATIVE APPROVAL

Accorded For Rs. Five lakhs only

Head of A/c P-3291

Div. Ref. No. 45 Date 01/02/19

AE 01/02

EE(BTP) 01/02

TECHNICAL SANCTION

Accorded For Rs. Five lakhs only

Head of A/c P-3291

Div. Ref. No. 75 Date 01/02/19

AE 01/02

EE(BTP) 01/02

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : Improvements of Road and drains in Kodigehalli Village in Ward No. 08, Kodigehalli

Estimated Cost : **25.00 Lakhs**

Code No. : 008–19–000006

BRUHATH BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements of roads and drains in Kodigehalli village in ward no.08 Kodigehalli.

Est Cost: Rs.25.00 Lakhs

Sl no	Description of Item	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.143, Item No.19.1)							
	4th A main balance portion RHS	1	118.00	1.00	1.00	118.00		
	21st A main C block LHS	1	144.00	1.00	1.00	144.00		
	Kerb surface	1	92.00	0.30	0.15	4.14		
						266.14	228.85	60906.00
							Per Cum	
	Basic Rate 130.00							
	Area Wtg 6% 7.80							
	Lead 91.05							
	Net Rate 228.85							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2.(P-13, I-4.3)							
	4th A main balance portion RHS	1	118.00	1.00	0.15	17.70		
	21st A main C block LHS	1	144.00	1.00	0.15	21.60		
	Kerb surface	1	92.00	0.30	0.08	2.15		
						41.45	5408.12	224182.00
							Per Cum	
	Basic Rate 5102.00							
	Area Wtg 6% 306.12							
	Net Rate 5408.12							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. (Page 271, Item No. 37.59.2) wall and bottom thickness 15cms.							
	For Rcc drain							
	For Bottom	1	118.00	1.00	0.15	17.70		
		1	144.00	1.00	0.15	21.60		

	For Walls		2	118.00	0.15	0.70	24.78		
			2	144.00	0.15	0.70	30.24		
							94.32	7070.20	666861.00
								per Cum	
	Basic Rate	6670.00							
	Area Wtg 6%	400.20							
	Net Rate	7070.20							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3 (P-18, I-4.46.2) Fe 500								
	For Culverts Deck 50kg/cum			94.32			4716.00		
							4716.00		
						Total	4.72	75223.96	354756.00
								Per tonnes	
	Basic Rate	70966.00							
	Area Wtg 6%	4257.96							
	Net Rate	75223.96							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (page No.27, in No. 5.31.2) 10cm thick								
	4th A main balance portion RHS		1	118.00	0.90		106.20		
	21st A main C block LHS		1	144.00	0.90		129.60		
						Total	235.80	966.72	227953.00
								Per Sqm	
	Basic Rate	912.00							
	Area Wtg 6%	54.72							
	Net Rate	966.72							
6	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. Wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 (Page No.26, Item No. 5.22)								
			197		3.20		629.33		
			240		3.20		768.00		
						Total	1397.33	61.48	85908.00
								Per mtr	
	Basic Rate	58.00							
	Area Wtg 6%	3.48							
	Net Rate	61.48							
7	KSRB 5-8.1 : Providing one line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 (Page No.26,, Item No. 5.17)								
	for covering slabs		1	118.00	0.90		106.20		
			1	144.00	0.90		129.60		
						Total	235.80	950.82	224203.00

								Per Smtr	
	Basic Rate	897.00							
	Area Wtg 6%	53.82							
	Net Rate	950.82							
8	Providing Machine cutting for BS slab including all lead and lift as per direction of Enginner-in charge of work (Data rate to be approved copy enclosed)								
	Qty vide Item No. 6						1397.33		
						Total	1397.33	60.00	83840.00
								Per Rmtr	
9	Providing and fixing Pre cast solid concrete kerb stones size 450 x 200 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete..(page no.27, item no.5.29.1)								
	For Kerb stones		262				262.00		
			320				320.00		
							582.00		
	Deduction for shoulder drain						18.00		
						Total	564.00	477.00	269028.00
								per Nos	
	Basic Rate	450.00							
	Area Wtg 6%	27.00							
	Net Rate	477.00							
10	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.. (page no.124, item no.15.80)								
	For Kerb stones		564		0.45	0.40	101.52		
						Total	101.52	39.22	3982.00
								per sqm	
	Basic Rate	37.00							
	Area Wtg 6%	2.22							
	Net Rate	39.22							
11	KSRRB M800-6. Painting two coats on New Concrete Surface : Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications. MORTH Specification No. 803 (Page No. 181, I No. 24.7)								
	kerb surface		564		0.40	0.35	78.96		
						Total	78.96	86.92	6863.00
								Per Smtr	
	Basic Rate	82.00							
	Area Wtg 6%	4.92							
	Net Rate	86.92							

12	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per specifications. Specification No. KBS 7.12 (Page No.34, Item No.7.9)								
	Gratings		18	0.09		21kg	34.02		
						Total	34.02	100.70	3426.00
								Per kg	
	Basic Rate	95.00							
	Area Wtg 6%	5.70							
	Net Rate	100.70							
							SubTotal Rs:-		2211908.00
13	Add 12% GSt								265428.96
14	Add PMC Charges 1%								22119.08
15	Miscellaneous and unforeseen charges								543.96
							Grand Total Rs:-		2500000.00
	(Rupees Twenty five lakhs only)								

CERTIFICATES

1 The work will be Executed within BBMP limit only
2 The work spot is inspected by me
3 The items Provided in the Estimate are quite Essential
4 The Estimate is prepared Based on CSR 2018-2019

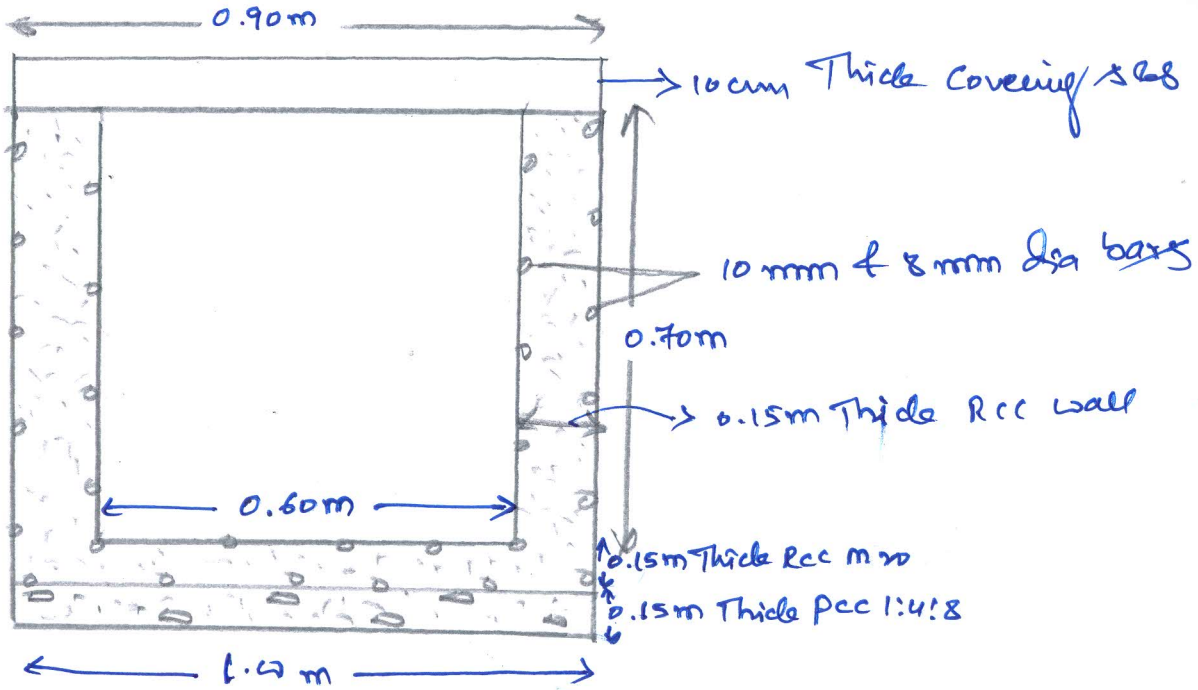
Asst.Engineer
Waard No-08

Asst. Executive Engineer
Kodigehalli Sub division
BBMP, Bangalore

Executive Engineer 01/02
Byatarayanapura Division
BBMP, Bangalore
01/02

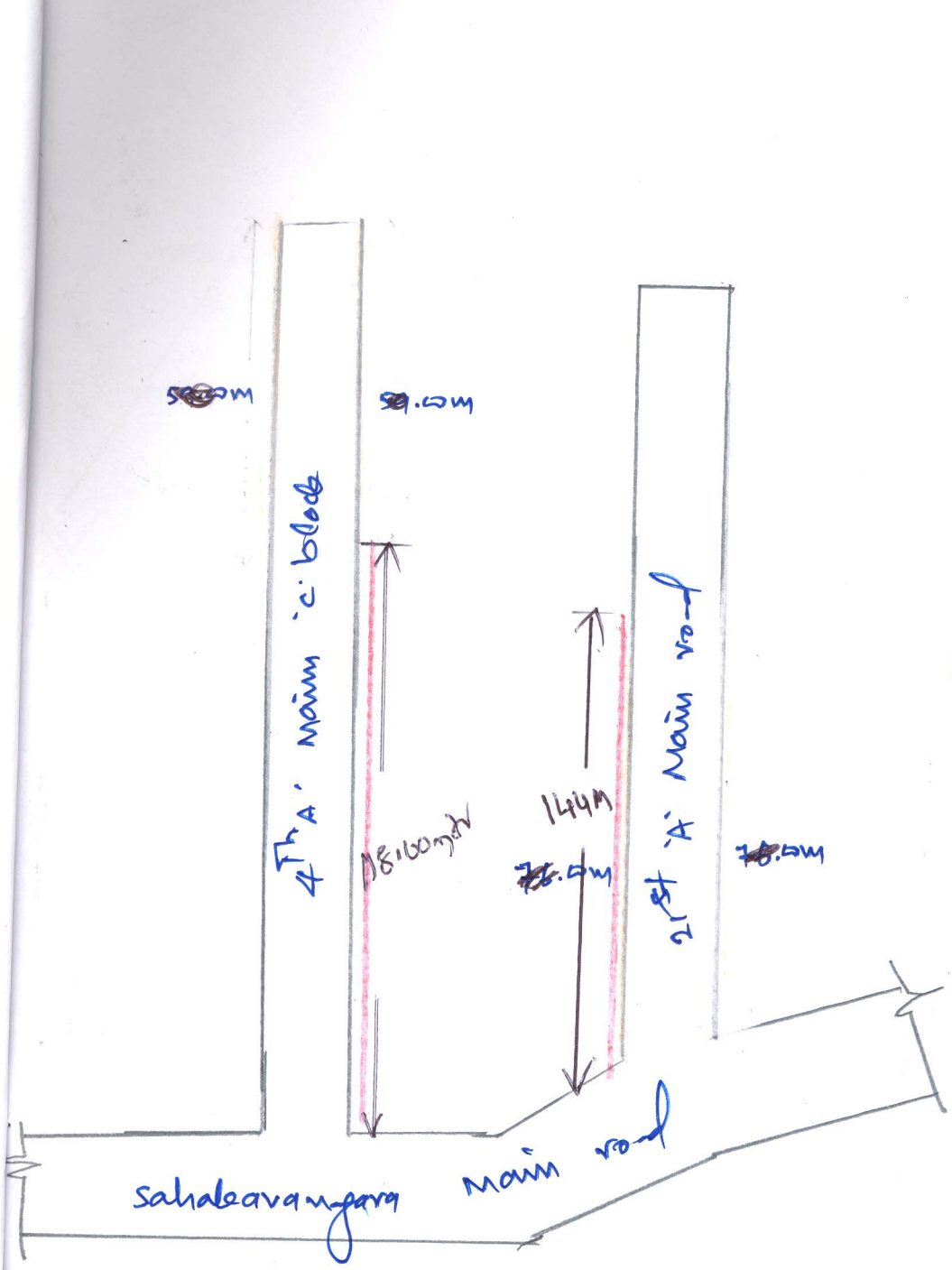
Technical Sanction
Accorded For RS25 lakhs only
Head of A/C P3296
CER NO : 245 Dt: 09.01.2019
TA CE (YNK)

Administrative Approval
Accorded For RS25 lakhs only
Head of A/C P3296
CER NO : 164 Dt: 09.01.2019
TA CE (YNK)



CROSS SECTION OF RCC DRAIN

me of work:- Improvements of roads and drain in Kodigehalli village in ward no. 08. Kodigehalli



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : **Improvements of Road and drains in Kodigehalli and surrounding in Ward No. 08, Kodigehalli**

Estimated Cost : **25.00 Lakhs**

Code No. : 008–19–000005

BRUHATH BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements of roads and drains in Kodigehalli and surrounding in ward no.08 Kodigehalli.

Est Cost: Rs.25.00 Lakhs

Sl no	Description of Item		No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.143, Item No.19.1)								
	4th A main C block LHS		1	188.00	1.00	1.00	188.00		
	RHS		1	70.00	1.00	1.00	70.00		
	For Kerb surface		1	188.00	0.30	0.12	6.77		
			1	70.00	0.30	0.12	2.52		
							267.29	228.85	61169.00
								Per Cum	
	Basic Rate	130.00							
	Area Wtg 6%	7.80							
	Lead	91.05							
	Net Rate	228.85							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2.(P-13, I-4.3)								
	4th A main C block LHS		1	188.00	1.00	0.15	28.20		
	RHS		1	70.00	1.00	0.15	10.50		
	For Kerb surface		1	188.00	0.30	0.10	5.64		
			1	70.00	0.30	0.10	2.10		
							46.44	5408.12	251153.00
								Per Cum	
	Basic Rate	5102.00							
	Area Wtg 6%	306.12							
	Net Rate	5408.12							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. (Page 271, Item No. 37.59.2) wall and bottom thickness 15cms.								

	For Rcc drain								
	For Bottom		1	188.00	1.00	0.15	28.20		
			1	70.00	1.00	0.15	10.50		
	For Walls		2	188.00	0.15	0.70	39.48		
			2	70.00	0.15	0.70	14.70		
							92.88	7070.20	656680.00
								per Cum	
	Basic Rate	6670.00							
	Area Wtg 6%	400.20							
	Net Rate	7070.20							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3 (P-18, I-4.46.2) Fe 500								
	For Culverts Deck 50kg/cum			92.88			4644.00		
							4644.00		
						Total	4.64	75223.96	349340.00
								Per tonnes	
	Basic Rate	70966.00							
	Area Wtg 6%	4257.96							
	Net Rate	75223.96							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (page No.27, in No. 5.31.2) 10cm thick								
			1	188.00	0.90		169.20		
			1	70.00	0.90		63.00		
						Total	232.20	966.72	224472.00
								Per Sqm	
	Basic Rate	912.00							
	Area Wtg 6%	54.72							
	Net Rate	966.72							
6	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. Wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 (Page No.26, Item No. 5.22)								
			313		3.20		1002.67		
			117		3.20		373.33		
						Total	1376.00	61.48	84596.00
								Per mtr	
	Basic Rate	58.00							
	Area Wtg 6%	3.48							

	Net Rate	61.48							
7	KSRB 5-8.1 : Providing one line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 (Page No.26,, Item No. 5.17)								
	for covering slabs		1	188.00	0.90		169.20		
			1	70.00	0.90		63.00		
						Total	232.20	950.82	220780.00
								Per Smtr	
	Basic Rate	897.00							
	Area Wtg 6%	53.82							
	Net Rate	950.82							
8	Providing Machine cutting for BS slab including all lead and lift as per direction of Enginner-in charge of work (Data rate to be approved copy enclosed)								
	Qty vide Item No. 6						1376.00		
						Total	1376.00	60.00	82560.00
								Per Rmtr	
9	Providing and fixing Pre cast solid concrete kerb stones size 450 x 200 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete..(page no.27, item no.5.29.1)								
	For Kerb stones		418				418.00		
			156				156.00		
							574.00		
	Deduction for shoulder drain						17.00		
						Total	557.00	477.00	265689.00
								per Nos	
	Basic Rate	450.00							
	Area Wtg 6%	27.00							
	Net Rate	477.00							
10	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.. (page no.124, item no.15.80)								
	For Kerb stones		557		0.45	0.40	100.26		
						Total	100.26	39.22	3932.00
								per sqm	
	Basic Rate	37.00							
	Area Wtg 6%	2.22							
	Net Rate	39.22							

11	KSRRB M800-6. Painting two coats on New Concrete Surface : Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications. MORTH Specification No. 803 (Page No. 181, I No. 24.7)								
	kerb surface		557		0.45	0.40	100.26		
						Total	100.26	86.92	8715.00
								Per Smtr	
	Basic Rate	82.00							
	Area Wtg 6%	4.92							
	Net Rate	86.92							
12	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per specifications. Specification No. KBS 7.12 (Page No.34, Item No.7.9)								
	Gratings		17	0.09		21kg	32.13		
						Total	32.13	100.70	3235.00
								Per kg	
	Basic Rate	95.00							
	Area Wtg 6%	5.70							
	Net Rate	100.70							
							Sub Total Rs:-		2212321.00
13	Add 12% GSt								265478.52
14	Add PMC Charges 1%								22123.21
15	Miscellaneous and unforeseen charges								77.27
							Grand Total Rs:-		2500000.00
	(Rupees Twenty five lakhs only)								

CERTIFICATES

1 The work will be Executed within BBMP limit only

2 The work spot is inspected by me

3 The items Provided in the Estimate are quite Essential

4 The Estimate is prepared Based on CSR 2018-2019

Asst.Engineer
Waard No-08

Asst. Executive Engineer
Kodigehalli Sub division
BBMP, Bangalore

Administrative Approval
Accorded For Rs 25 'a lacs only
Head of A/C P3296
CER NO :162 Dt:05.01.19

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore

TA CE (YNK)

Technical Sanction
Accorded For Rs25 'a lacs only
Head of A/C P3296
CER NO :243 Dt:05.01.2019

TA CE (YNK)

me of work:- Improvements of roads and drain in Kodigehalli and Surroundings in Ward no. 08

Kodigehalli

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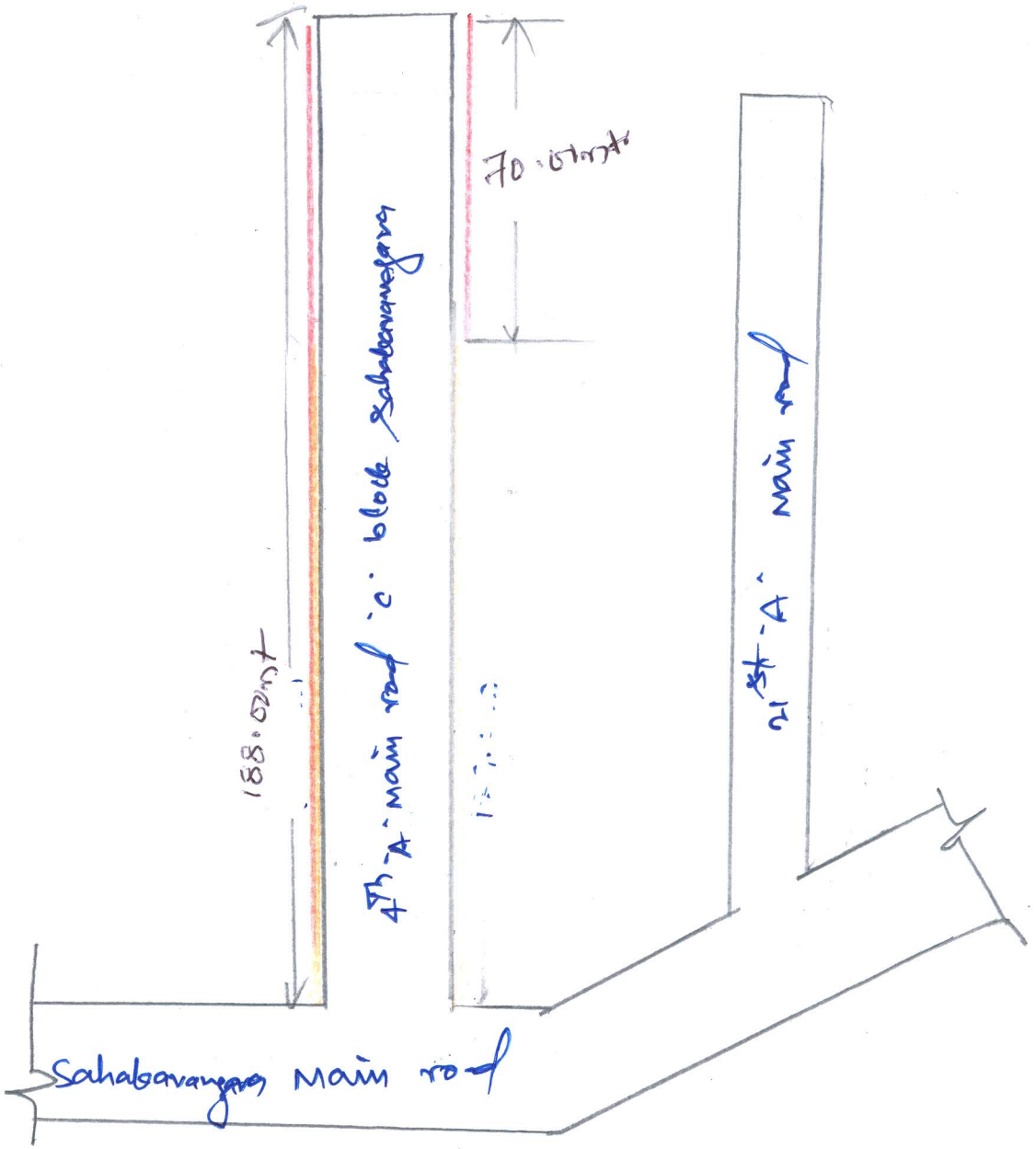

INDEX

- R.c.c drain with covering slab & Kerb stone.

WDS

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : **Providing Borewell and Pipeline Work in Kodigehalli Ward No. 08, Kodigehalli**

Estimated Cost : **25.00 Lakhs**

Code No. : 008–19–000004

BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work :- Providing Borewell and pipe line work in Kodigehalli in ward no.08, Kodigehalli.

						Est Cost: Rs. 25.00Lakhs		
Sl no	Description of Item	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting gvenner or schiberger's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality and acceptability of the users indicating the licating the location of site, recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe, depth of drilling required to cover full depth of acquifer proposed to be tapped, probate yield and other information required including transportation and accessories to work site, engaging technical personal and labour required etc.,(Page.no.48, item no.9.4) PRED SR 2012-13.							
		2				2.00	1938.46	3877.00
							No	
2	Sinking borewell of 165mm dia clear using super fast Hydrolic rig of capacity 250 PSIG na above 900 CFM and abaove in all strats including over burden upto 20M. fixing of casing pipes collars and cap with necessary, cutting and threading including transportation of rig and supporting vehicles, crew charges and cost of consumbables etclm complete including yield testing at the final depth with a minimum work in on compression for an hour (excluding cost of casing pipes collars cap etc.,)(P-46,I.NO.9.1 from 9.1.1 TO 9.1.6)PRED SR 2012-13							
a	0.00 to 50.00 mtrs	2	50.00			100.00	315.18	31518.00
b	50.00 to 100.00 mtr	2	50.00			100.00	412.00	41200.00
c	100.00 to 150.00 mtr	2	50.00			100.00	458.35	45835.00
d	150.00 to 200.00 mtr	2	50.00			100.00	484.10	48410.00
e	200.00 to 250.00 mtr	2	50.00			100.00	560.32	56032.00
f	250.00 to 300.00 mtr	2	30.00			60.00	600.49	36029.00
							Rmtr	
	Additional Rate item no.9.1 is allowed for drilling in over burden and fixing casing pipes beyond 20 M (for fixinig casing pipes only (a) Above 20M upto 30 M -15% (b) Above 30M -30% Ref PRED SR 2011-12 (Page no.48,)Note-1							
a	20.00 to 30.00 mtr	2	10.00			20.00	47.28	946.00
b	above 30.00 mtr	2	31.00			62.00	94.55	5862.00
							Rmtr	
3	Supplying of ISI Mark 175 mm nominal bore, Plain end steel casing pipe - grade of steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments. electric resistance welded steel tube material and confirming to IS 1387/1993 and cmanufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mtrs. Both ends threaded confirming to IS 554/1985. one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking. weighing 25.10kg/mtr. (Inclusive of all taxes and durties) Prices include collar-medium duty. (Page no.iii, Item No.84)PRED SR 2011-12							

	Casing pipe	2	46.00			92.00		
	For Exsting borewells	3	30.00			90.00		
						182.00	1325.00	241150.00
							Mtr	
4	KSRB13.3.6: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 (Page no.92, item no.13.15)50mm dia PWD SR 2018-19							
	For New borewells	2	270.00			540.00		
	For Exsting borewells	4	30.00			120.00		
						660.00	411.28	271445.00
							Rmtr	
5	Providing 175mm dia MS cap (PRED SR 12-13, page iii, item no.85)							
	For New borewells	2				2.00		
	For Exsting borewells	8				8.00		
						10.00	100.00	1000.00
							Each	
6	Supply and drawing 3 core flat sheathed submersible pump cable manufactured with celectrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts as per 1x3x4 sqmm of 56 strands 0.3mm dia Group A (Page no.12, item no.2.10.3) PWD Elctriclal SR 2014-15 3Cx4.0Sqmm							
	For New borewells	4	280.00			1120.00		
	For Exsting borewells	7	75.00			525.00		
						1645.00	126.70	208422.00
							Mtr	
7	Atalanta, Suguna, CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5KV(20 stage) (Page No.XXXXII, Sl.No.21) KPWD SR-2016-17							
	New Borewell	2				2.00		
	Existing borewell	1				1.00		
						3.00	49955.00	149865.00
							Nos	
8	Supplying and fixing wiring earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (page no.55, Sl.no.7.1) Electrical SR2014-15							
	For new borewell	2				2.00		
	Existing borewell	12				12.00		
						14.00	2727.00	38178.00
							Each	
9	Supplying and fixing 20"x20"x2.5" polished wood board made up not less than 15mm thick plank with front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts (P.No.44 SL.No.6.6.6) Electrical SR 2014-15							

	For new borewell	2				2.00		
	Existing borewell	13				13.00		
						15.00	302.00	4530.00
							Each	
10	Supplying of 1.1 KV LTUG Cable having alluminium conductor PVC insulated extruded inner sheathed , galvanized, steel strip (except 2C X 10sq.mm wire armoured) confirming to IS-3975:1990(No.of Strip indicated in GTP) & extruded PVC outer sheathed armored cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm (Page no.55, Sl.no.7.4.4) Electrical SR2014-15							
	For new borewell	2	10.00			20.00		
	Existing borewell	6	8.00			48.00		
						68.00	140.40	9547.20
							Mtr	
11	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/on wall/on poles as required. In existing trench/duct. 6 sqmm to 16sqmm (Page no.61, Sl.no.7.8.1) Electrical SR2014-15							
		2	10.00			20.00	10.80	216.00
							Mtr	
12	Supplying and fixing of procelin fuse channel with cutouts on existing wooden/panel using necessary nuts, bolts and washers. 63Amps (Page no.44,Slno.6.7.3) Electrical SR 2014-15							
	For new borewell	2				2.00		
	Existing borewell	12				12.00		
						14.00	234.00	3276.00
							Each	
13	Providing and fixing in position 50mm nominal bore non-return valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.(Page no.95, Item no.13.62) KPWD SR 2018-19							
	For new borewell	2				2.00		
	Existing borewell	14				14.00		
						16.00	1345.14	21522.00
							Nos	
14	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63Amps TPN (Page no.47 Sl.No.6.16.6) Electrical SR2014-15							
	For new borewell	2				2.00		
	Existing borewell	10				10.00		
						12.00	1936.00	23232.00
							Each	
	BESCOM Deposit charges and miscellanesous							30000.00
15	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Cement concrete road including cost of materials, labour, HOM complete as per specifications.(Pg.no.269, item no.37.40)PWD SR-18-19							

			2	365.00	0.60	0.15	65.70		
							65.70	727.16	47774.00
	Basic rate	686.00						Cum	
	A.wtg 6%	41.16							
	Net rate	727.16							
16	KSRB 2-2.2 : Earthwork excavation by manual means in hard soil for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications..(page no.6, item no.2.4) PWD SR 2018-19								
			2	365.00	0.60	0.60	262.80		
	For Taps		55	0.45	0.45	0.75	8.35		
							271.15	475.94	129053.00
	Basic rate	449.00						Cum	
	A.wtg 6%	26.94							
	Net rate	475.94							
17	Supplying PVC ring tight pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite rolling and lowering into trenches laying true line and level and perfect linking at joints testing and commissioning including loading and unloading at both destination and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approval type with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15 cms with soft gravel or selected earth available from the excavation etc., compelte and giving necessary hydraluic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing) (Page no.53, Item no.1(3) BWSSB SR-2014-15)								
			2	365.00			730.00		
							730.00	73.00	53290.00
								Mtr	
18	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(Page No.7,Item No. 2.11) KPWD SR-2018-19								
			2	365.00	0.60	0.30	131.40		
							131.40	128.26	16853.00
	Basic rate	121.00						Cum	
	A.wtg 6%	7.26							
	Net rate	128.26							
19	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2.(P-13, I-4.3)								

	For Pipe line surface		2	365.00	0.60	0.15	65.70		
						Total	65.70	5408.12	355313.00
	Basic rate	5102.00						per Cum	
	A.wtg 6%	306.12							
	Net rate	5408.12							
20	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (page no.13 , I,no-4.6)								
			2	365.00	0.60	0.10	43.80		
						Total	43.80	5747.32	251733.00
	Basic rate	5422.00						Per Cmtr	
	A.wtg 6%	325.32							
	Net rate	5747.32							
21	Providing and fixing chorinated poly vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) (Page No.98, Item No. 13.85.2)20mm nominal OD pipes KPWD SR 2018-19								
	For Taps		55	1.20			66.00		
							66.00	166.42	10984.00
								Rmt	
22	KSRB13-6.1 : Providing and fixing in position brass bib cock of approved quality nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (Page No.93, Item No. 13.23) KPWD SR 2018-19 15mm dia nominal bore								
	For Taps		55				55.00		
							55.00	201.40	11077.00
								Each	
23	KSRB 6-1.3 : Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5Newton per sqm with cement mortar including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2(Page No.29, Item No. 6.3) with cement mortar 1:6 KPWD SR 2018-19								
	For Taps		55	0.30	0.30	1.20	5.94		
							5.94	6584.72	39113.00
	Basic rate	6212.00						Cum	
	A.wtg 6%	372.72							
	Net rate	6584.72							
24	KSRB15-3 : Providing 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding,cost of materials, labour, curing etc., complete as per specification. (Page No.116, Item No. 15.21) cement mortar 1:3 KPWD SR 2018-19								
	For Taps		55	1.20		1.20	79.20		
							79.20	249.10	19729.00

	Basic rate	235.00						Sqm	
	A.wtg 6%	14.10							
	Net rate	249.10							
25	Lead for disposal of debris shall be payable at carrage rates by mechanical means including loading and unloading From 13.30 Kms								
	For Debries						58.00		
							58.00	91.05	5281.00
								Per cmtr	
							Total Rs:-		2212292.20
26	Add GST 12%								265475.06
27	Add 1% PMC Charges								22122.92
28	Miscellaneous and unforeseen charges								109.81
							Total Rs:-		2500000.00
	(Rupees Twenty five Lakhs only)								

CERTIFICATES

1 The work will be Executed within BBMP limit only

2 The work spot is inspected by me

3 The items Provided in the Estimate are quite Essential

4 The Estimate is prepared Based on CSR 2018-2019, BWSSB SR 2014-15 and Electrical SR 2014-15 And PRED SR 2012-13

Asst.Engineer
Waard No-08

Asst. Executive Engineer
Kodigehalli Subdivision
BBMP, Bangalore

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore

Technical Sanction
Accorded For Rs 25.00 Lakhs only
Head of A/C..P3293.....
CER NO :..244..... Dt:09.01.2019

TA CE (YNK)

Administrative Approval
Accorded For Rs 25.00 Lakhs only
Head of A/C..P3293.....
CER NO :..163..... Dt:09.01.2019

TA CE (YNK)